ELSEVIER

Physica C 295 (1998) 333–334

PHYSICA C

Author Index to Volume 295

Arbuzova, T.I., see Lazuta, A.V., **295** (1998) 22

Balashov, D., see Dolata, R., **295** (1998) 247
Bertinotti, A., see Colson, D., **295** (1998) 186
Budnick, J.I., see Rossman, C.E., **295** (1998) 304

Caneiro, A., see Prado, F., **295** (1998) 235
Casas, M., S. Fujita, M. de Llano, A. Puente, A. Rigo and M.A. Solís, The Cooper pair dispersion relation, **295** (1998) 93
Chen, H., see Zhang, Y.Z., **295** (1998) 75
Chen, J., see Romano, P., **295** (1998) 15
Chen, X.K., J.C. Irwin, H.J. Trodahl, M. Okuya, T. Kimura and K. Kishio, Electronic Raman scattering in optimally doped $La_{2-x}Sr_xCuO_4$, **295** (1998) 80
Chung, H., see Hua, L., **295** (1998) 331
Colson, D., V. Viallet, A. Forget, S. Poissonnet, L. Schmirgeld-Mignot, J.F. Marucco and A. Bertinotti, Gold substitution in $HgBa_2Ca_2Cu_3O_{8+\delta}$ single crystals, **295** (1998) 186

Das, A., I. Zelenay and R. Suryanarayanan, Normal state transport properties of $Y_{1-x}Pr_xSrBaCu_3O_7$ and $Y_{1-x}Pr_xSr_2Cu_{2.8}Re_{0.2}O_7$, **295** (1998) 47
Däumling, M., see Eckelmann, H., **295** (1998) 198
De Llano, M., see Casas, M., **295** (1998) 93
Dolata, R. and D. Balashov, Platinum thin film resistors with Cr under- and overlayers for $Nb/Al_2O_3/Nb$ technology, **295** (1998) 247
Dong, C., see Zhang, Y.Z., **295** (1998) 75
Dou, S.X., see Li, S., **295** (1998) 64
Doyle, R.A., see Vinokur, V., **295** (1998) 209

Eckelmann, H., M. Däumling, M. Quilitz and W. Goldacker, AC transport current losses of multifilamentary Bi(2223) tapes with varying filament geometries, **295** (1998) 198

Firsov, Yu.A., see Nakhmedov, E.P., **295** (1998) 150
Forget, A., see Colson, D., **295** (1998) 186
Fujita, S., see Casas, M., **295** (1998) 93
Funahashi, R., I. Matsubara, H. Ohashi, K. Ueno and H. Ishikawa, Preparation parameters governing microstructure and grain coupling of $Bi_2Sr_2CaCu_2O_x/Ag$ tapes prepared by partial melting, **295** (1998) 39

Gao, W., see Li, S., **295** (1998) 64
Gilchrist, J., Erratum to "Flux diffusion and the porous medium equation" [Physica C 291 (1997) 132–142], **295** (1998) 330
Goldacker, W., see Eckelmann, H., **295** (1998) 198
Griessen, R., see Wijngaarden, R.J., **295** (1998) 177
Gupta, H.C., Effect of angular forces on the phonons in $LuNi_2B_2C$, **295** (1998) 287

Haase, D.G., see Saleh, A.M., **295** (1998) 225
Hasegawa, M., see Mamiya, M., **295** (1998) 271
Heeck, K., see Wijngaarden, R.J., **295** (1998) 177
Hohlwein, D., see Straube, E., **295** (1998) 1
Hu, Q.Y., see Li, S., **295** (1998) 64
Hua, L., J. Yoo, J. Ko, H. Kim, H. Chung and G. Qiao, Erratum to "Microstructure and phase evolution of ultrafine MgO doped Bi-2223/Ag tapes". [Physica C 291 (1997) 149–154], **295** (1998) 331

Irwin, J.C., see Chen, X.K., **295** (1998) 80
Ishigaki, T., see Mori, K., **295** (1998) 251
Ishikawa, H., see Funahashi, R., **295** (1998) 39
Itskevich, E.S. and E.V. Zhasinas, Interlayer effects in Hg-high-T_c-cuprates under high pressure, **295** (1998) 193

Jia, S.L., see Zhang, Y.Z., **295** (1998) 75

Kawabata, J., see Tagaya, K., **295** (1998) 259
Kes, P.H., see Vinokur, V., **295** (1998) 209
Khaykovich, B., see Vinokur, V., **295** (1998) 209
Kikkawa, S.-i., see Tagaya, K., **295** (1998) 259
Kim, H., see Hua, L., **295** (1998) 331
Kimura, T., see Chen, X.K., **295** (1998) 80
Kingon, A.I., see Saleh, A.M., **295** (1998) 225
Kishio, K., see Chen, X.K., **295** (1998) 80
Ko, J., see Hua, L., **295** (1998) 331
Koch, C.C., see Saleh, A.M., **295** (1998) 225
Konczykowski, M., see Vinokur, V., **295** (1998) 209
Kubanek, F., see Straube, E., **295** (1998) 1
Kulić, M.L., see Mack, F., **295** (1998) 126

Larionov, I.I., see Lazuta, A.V., **295** (1998) 22
Lazuta, A.V., V.A. Ryzhov, I.I. Larionov and T.I. Arbuzova, Second-order uniform dynamic susceptibility of lightly oxygenated La_2CuO_{4+x} single crystals and peculiarity of their magnetic properties at phase separation, **295** (1998) 22
Li, J.W., see Zhang, Y.Z., **295** (1998) 75
Li, L., see Zhang, Y.Z., **295** (1998) 75
Li, S., W. Gao, Q.Y. Hu, H.K. Liu and S.X. Dou, The fracture behaviour of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+x}$ polycrystals clad with silver sheets, **295** (1998) 64
Li, X.-G., see Sun, X., **295** (1998) 218
Liu, H.K., see Li, S., **295** (1998) 64

Mack, F., M.L. Kulić and M. Mehring, Theoretical analysis of NMR experiments in normal and superconducting states of high-T_c superconductors, **295** (1998) 126
Mamiya, M., T. Suzuki, M. Hasegawa and H. Takei, In situ observation of the thermal stability field of $Bi_2Sr_3Cu_2O_8$, **295** (1998) 271
Marucco, J.F., see Colson, D., **295** (1998) 186
Matsubara, I., see Funahashi, R., **295** (1998) 39
Mazaki, H., see Tochihara, S., **295** (1998) 101
Mehring, M., see Mack, F., **295** (1998) 126
Mori, K., T. Ishigaki and A. Sakai, Carrier concentration and phonon anomaly above T_c in the $YBa_2Cu_4O_8$ system, **295** (1998) 251
Mukhopadhyay, S.M. and C. Wei, Interaction of bromine with $Y_1Ba_2Cu_3O_{7-x}$: its role as a dopant and an etchant, **295** (1998) 263

Nakhmedov, E.P. and Yu.A. Firsov, Influence of order parameter phase fluctuations on the physical properties of quasi-two dimensional superconductors, **295** (1998) 150

Ohashi, H., see Funahashi, R., **295** (1998) 39
Okuya, M., see Chen, X.K., **295** (1998) 80

Poissonnet, S., see Colson, D., **295** (1998) 186
Prado, F., A. Caneiro and A. Serquis, High temperature thermodynamic properties, orthorhombic/tetragonal transition and phase stability of $GdBa_2Cu_3O_y$ and related R123 compounds, **295** (1998) 235
Puente, A., see Casas, M., **295** (1998) 93

Qiao, G., see Hua, L., **295** (1998) 331
Quilitz, M., see Eckelmann, H., **295** (1998) 198

Ravi, S., Universal behaviour of ac susceptibility of granular $(Bi_{1.2}Pb_{0.3})Sr_{1.5}Ca_2Cu_3O_y$ superconductors, **295** (1998) 277
Rigo, A., see Casas, M., **295** (1998) 93
Romano, P., J. Chen and J. Zasadzinski, Josephson and quasiparticle tunneling in SIS junctions of $Bi_2Sr_2CaCu_2O_8$ and $Bi_2Sr_2CuO_6$, **295** (1998) 15
Rossman, C.E. and J.I. Budnick, Precession of spinning magnets levitated over high-temperature superconductors, **295** (1998) 304
Ryzhov, V.A., see Lazuta, A.V., **295** (1998) 22

Sakai, A., see Mori, K., **295** (1998) 251
Saleh, A.M., G. Schindler, C. Sarma, D.G. Haase, C.C. Koch and A.I. Kingon, Isolation techniques and electrical characterization of single grain boundaries of $Bi_2Sr_2CaCu_2O_2$ high-temperature superconductor, **295** (1998) 225
Sarma, C., see Saleh, A.M., **295** (1998) 225
Sasakura, H., see Tagaya, K., **295** (1998) 259
Schindler, G., see Saleh, A.M., **295** (1998) 225
Schmirgeld-Mignot, L., see Colson, D., **295** (1998) 186
Serquis, A., see Prado, F., **295** (1998) 235
Shevchenko, P.V. and O.P. Sushkov, The role of g-wave pairing and Josephson tunneling in high-T_c cuprate superconductors, **295** (1998) 292
Solís, M.A., see Casas, M., **295** (1998) 93
Spoelder, H.J.W., see Wijngaarden, R.J., **295** (1998) 177
Straube, E., D. Hohlwein and F. Kubanek, The ortho-II superstructure of $YBa_2Cu_3O_{6.5}$ – temperature behaviour, oxygen ordering and T_c, **295** (1998) 1
Sun, X., W. Wu, L. Yang, W. Yu, P. Yang, G. Zhou and X.-G. Li, Study on the structure of a new single crystal $Bi_2Sr_{1.5}Pr_{2.5}Cu_2O_y$, **295** (1998) 218
Surdeanu, R., see Wijngaarden, R.J., **295** (1998) 177
Suryanarayanan, R., see Das, A., **295** (1998) 47
Sushkov, O.P., see Shevchenko, P.V., **295** (1998) 292
Suzuki, T., see Mamiya, M., **295** (1998) 271

Tagaya, K., J. Kawabata, Y. Taniguchi, H. Sasakura and S.-i. Kikkawa, Magnetic properties of $(Pb,Cu)_1(Sr,Gd)_2$-$(La,Gd)_2Cu_2O_z$, **295** (1998) 259
Takei, H., see Mamiya, M., **295** (1998) 271
Taniguchi, Y., see Tagaya, K., **295** (1998) 259
Tao, H.J., see Zhang, Y.Z., **295** (1998) 75
Tochihara, S., H. Yasuoka and H. Mazaki, Effect of surface barriers and lower critical fields to magnetization of type-II superconductors, **295** (1998) 101
Trodahl, H.J., see Chen, X.K., **295** (1998) 80

Ueno, K., see Funahashi, R., **295** (1998) 39

Viallet, V., see Colson, D., **295** (1998) 186
Vinokur, V., B. Khaykovich, E. Zeldov, M. Konczykowski, R.A. Doyle and P.H. Kes, Lindemann criterion and vortex-matter phase transitions in high-temperature superconductors, **295** (1998) 209

Wei, C., see Mukhopadhyay, S.M., **295** (1998) 263
Wijngaarden, R.J., K. Heeck, H.J.W. Spoelder, R. Surdeanu and R. Griessen, Fast determination of 2D current patterns in flat conductors from measurement of their magnetic field, **295** (1998) 177
Wu, W., see Sun, X., **295** (1998) 218

Yang, D.G., see Zhang, Y.Z., **295** (1998) 75
Yang, H.T., see Zhang, Y.Z., **295** (1998) 75
Yang, L., see Sun, X., **295** (1998) 218
Yang, P., see Sun, X., **295** (1998) 218
Yasuoka, H., see Tochihara, S., **295** (1998) 101
Yin, B., see Zhang, Y.Z., **295** (1998) 75
Yoo, J., see Hua, L., **295** (1998) 331
Yu, W., see Sun, X., **295** (1998) 218

Zasadzinski, J., see Romano, P., **295** (1998) 15
Zeldov, E., see Vinokur, V., **295** (1998) 209
Zelenay, I., see Das, A., **295** (1998) 47
Zhang, Y.Z., L. Li, D.G. Yang, B.R. Zhao, H. Chen, C. Dong, H.J. Tao, H.T. Yang, S.L. Jia, B. Yin, J.W. Li and Z.X. Zhao, Epitaxial growth of $Bi_2Sr_{2-x}La_xCuO_{6+\delta}$ thin films by RF-magnetron sputtering, **295** (1998) 75
Zhao, B.R., see Zhang, Y.Z., **295** (1998) 75
Zhao, Z.X., see Zhang, Y.Z., **295** (1998) 75
Zhasinas, E.V., see Itskevich, E.S., **295** (1998) 193
Zhou, G., see Sun, X., **295** (1998) 218

ELSEVIER

Physica C 295 (1998) 335–336

PHYSICA C

Analytic Subject Index to Volume 295

AC losses
–in Bi(2223) tapes 198
AC susceptibility 304
–of $(Bi_{1.2}Pb_{0.3})Sr_{1.5}Ca_2Cu_3O_y$ 277
Angular force model 287

Biomagnetic inversion 177

Carrier density
–in $YBa_2Cu_4O_8$ 251
Chain oxygen disorder
–in $Y_{1-x}Pr_xSr_2Cu_{2.8}Re_{0.2}O_7$ 47
–in $Y_{1-x}Pr_xSrBaCu_3O_7$ 47
Critical current density 225, 304
–of $(Bi_{1.2}Pb_{0.3})Sr_{1.5}Ca_2Cu_3O_y$ 277
–of $Bi_2Sr_2CaCu_2O_x$/Ag tapes 39
Critical phenomena 22
Crystal structure
–of $Bi_2Sr_{1.5}Pr_{2.5}Cu_2O_y$ 218
Cu–O planes 22

2D current patterns 177
Doping effect
–in $Y_1Ba_2Cu_3O_{7-x}$ 263

Electrical resistivity
–of $Y_{1-x}Pr_xSr_2Cu_{2.8}Re_{0.2}O_7$ 47
–of $Y_{1-x}Pr_xSrBaCu_3O_7$ 47
Electron spin resonance
–in $(Pb,Cu)_1(Sr,Gd)_2(La,Gd)_2Cu_2O_z$ 259
Electron-phonon coupling 93

Flux creep 304
Fracture behaviour
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+x}$ polycrystals clad 64

Grain coupling
–in $Bi_2Sr_2CaCu_2O_x$/Ag tapes 39
Granular superconductivity 304
Growth
–of $Bi_2Sr_{2-x}La_xCuO_{6+\delta}$ thin films 75

Heat treatment 47

IV characteristics 225
–of Bi(2223) tapes 198
In situ observation 271
Influence of bromine
–on $Y_1Ba_2Cu_3O_{7-x}$ 263
Interlayer effects 193
Irreversibility temperature
–of $(Bi_{1.2}Pb_{0.3})Sr_{1.5}Ca_2Cu_3O_y$ 277

Josephson coupling 149
Josephson tunneling 15, 292

Knight shift 125

Lattice parameters
–of $Bi_2Sr_{1.5}Pr_{2.5}Cu_2O_y$ 218
Levitation 304
Lindeman criterion 209
Loss factors
–of Bi(2223) tapes 198
Lower critical field H_4 101

Magnetic susceptibility
–of $YBa_2Cu_3O_{6+x}$ 125
–of La_2CuO_{4+x} single crystals 22
–of $Hg_{1-x}Au_xBa_2Ca_2Cu_3O_{8+\delta}$ single crystal 186
Magnetization 101
–of $(Pb,Cu)_1(Sr,Gd)_2(La,Gd)_2Cu_2O_z$ 259
Magneto-optics 177
Mechanical deformation
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+x}$ polycrystals clad 64
Microstructure
–of $Bi_2Sr_2CaCu_2O_x$/Ag tapes 39
–of $Bi_2Sr_{2-x}La_xCuO_{6+\delta}$ thin films 75
Modulation
–in $Bi_2Sr_{1.5}Pr_{2.5}Cu_2O_y$ 218

NMR 125
Novel geometries
–of Bi(2223) tapes 198

O/T transition
–in $GdBa_2Cu_3O_y$ 235
–in $NdBa_2Cu_3O_y$ 235
Order parameter 149
Oxygen stoichiometry 22
–in $GdBa_2Cu_3O_y$ 235
–in $NdBa_2Cu_3O_y$ 235
–in $YBa_2Cu_3O_y$ 235
Oyxgen ordering
–in $YBa_2Cu_3O_{6+x}$ 1

Pair breaking 93
Penetration depth 149
Phase boundaries 209
Phase diagram 209
–of $Bi_2Sr_3Cu_2O_8$ 271
Phase fluctuations 149
Phase separation
–in La_2CuO_{4+x} single crystals 22
Phase stability
–of $GdBa_2Cu_3O_y$ 235
–of $NdBa_2Cu_3O_y$ 235
Phonon anomaly above T_c
–in $YBa_2Cu_4O_8$ 251
Phonon mechanism 93
Phonon spectrum
–of $LuNi_2B_2C$ 287
Phonons
–in $LuNi_2B_2C$ 287
–in $YBa_2Cu_4O_8$ 251
Pr-f hybridization 47
Precession 304
Preparation parameters
–for $Bi_2Sr_2CaCu_2O_x$/Ag tapes 39
Pressure effect
–on $HgBa_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ 193

Quasiparticle tunneling 15

Raman scattering
–in $La_{2-x}Sr_xCuO_4$ 80
–on $YBa_2Cu_4O_8$ 251
Rapid single flux quantum 247

Single grain boundaries
–in $Bi_2Sr_2CaCu_2O_2$ tapes 225
Single-crystal growth
–of $Hg_{1-x}Au_xBa_2Ca_2Cu_3O_{8+\delta}$ 186
Structure
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+x}$ polycrystals clad 64
–of $Bi_2Sr_{2-x}La_xCuO_{6+\delta}$ thin films 75
–of $Y_{1-x}Pr_xSr_2Cu_{2.8}Re_{0.2}O_7$ 47
–of $Y_{1-x}Pr_xSrBaCu_3O_7$ 47
–of $YBa_2Cu_3O_{6+x}$ 1
Substitution effect
–in $Hg_{1-x}Au_xBa_2Ca_2Cu_3O_{8+\delta}$ 186
Superconductin gap
–in $La_{2-x}Sr_xCuO_4$ 80
Surface barriers 101
Surface norphology
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10+x}$ polycrystals clad 64
Synthesis
–of $Bi_2Sr_2CaCu_2O_2$ 225
–of $Bi_2Sr_2CaCu_2O_x$/Ag tapes 39
–of $Bi_2Sr_{2-x}La_xCuO_{6+\delta}$ thin films 75
–of $Hg_{1-x}Au_xBa_2Ca_2Cu_3O_{8+\delta}$ single cyrstal 186
–of Nb/Al_2O_3Nb junctions 247

Theoretical analysis 125
Theoretical mangetization curves 101
Thermal stability
–of $Bi_2Sr_3Cu_2O_8$ 271
Thermoelectric power
–of $Y_{1-x}Pr_xSr_2Cu_{2.8}Re_{0.2}O_7$ 47
–of $Y_{1-x}Pr_xSrBaCu_3O_7$ 47
Thin film resistors 247
Torques 304
Transition temperature
–of $HgBa_2Ca_{n-1}Cu_nO_{2n+2+\delta}$ 193
–of $YBa_2Cu_3O_{6+x}$ 1
Tunnel junctions
–on $Bi_2Sr_2CaCu_2O_8$ 15
–on $Bi_2Sr_2CuO_6$ 15

Universal behaviour 277

Vortex matter 209

d-Wave symmetry 80
d-Wave tunneling 292
g-Wave pairing 292
Weak ferromagnetism
–in $(Pb,Cu)_1(Sr,Gd)_2(La,Gd)_2Cu_2O_z$ 259
Weak superconductivity
–in $(Pb,Cu)_1(Sr,Gd)_2(La,Gd)_2Cu_2O_z$ 259

X-ray diffraction
–on $Bi_2Sr_{1.5}Pr_{2.5}Cu_2O_y$ 218
–on $Bi_2Sr_3Cu_2O_8$ 271
–on $YBa_2Cu_3O_{6+x}$ 1
XPS
–on $Y_1Ba_2Cu_3O_{7-x}$ 263